

WHAT IS CLAIMED IS:

1. A composition for treating hypertriglyceridemia, which comprises a mixture of fatty acyl compounds, said fatty acyl compound mixture having a polyunsaturated fatty acid content of at least 65 weight percent and including linoleic acid in an amount from about 10 to about 35 weight percent, γ -linolenic acid, in an amount from about 5 to about 50 weight percent, stearidonic acid, in an amount from about 15 to about 55 weight percent, said amounts being based on the total weight of the polyunsaturated fatty acid content of said mixture, and at least one therapeutic agent selected from the group of antilipemic agents, antioxidants and antidiabetic agents.
2. A composition according to claim 1, wherein said fatty acyl compound mixture further includes at least one saturated fatty acid and at least one mono-unsaturated fatty acid.
3. A composition according to claim 2, wherein said at least one saturated fatty acid and said at least one mono-unsaturated fatty acid predominantly comprise C_{16} and C_{18} fatty acids.
4. A composition according to claim 3, wherein said fatty acyl compound mixture is Echium oil.
5. A composition according to claim 1, wherein said antilipemic agent is selected from the group of niacin, fluvastatin sodium, cerivastatin sodium, simvastatin, atorvastatin calcium, lovastatin,

clofibrate, ciprofibrate, gemfibrozil, bezafibrate,
fenofibrate and pravastatin sodium.

5 6. A composition according to claim 1, wherein
said anti-oxidant is selected from the group of
tocopherol, ascorbic acid, tocotrienol, selenium,
curcumin βcarotene and probucol.

10 7. A composition according to claim 1, wherein
said anti-diabetic agent is selected from the group of
troglitazone, pioglitazone, rosiglitazone, pioglitazone .

15 8. A method of treating hypertriglyceridemia in a
patient in need of such treatment, said method comprising
administering to said patient a therapeutically effective
amount of a composition comprising a mixture of fatty
acyl compounds, said fatty acyl compound mixture having a
polyunsaturated fatty acid content of at least 65 weight
percent and including linoleic acid in an amount from
about 10 to about 35 weight percent, γ-linolenic acid in
an amount from about 5 to about 50 weight percent, α-
linolenic acid in an amount from about 15 to about 60
weight percent and stearidonic acid in an amount from
about 15 to about 55 weight percent, said amounts being
based on the total weight of the polyunsaturated fatty
acid content of in said mixture, optionally, in
combination with at least one therapeutic agent selected
from the group of antilipemic agents, antioxidants and
antidiabetic agents.

20 9. A method according to claim 8, wherein said
composition is administered in an amount which delivers
from about .04 to about .35 grams of said fatty acyl
compound mixture per kilogram of patient body weight per
day.

10. A method according to claim 8, wherein said composition is administered orally.

5 11. A method as claimed in claim 8, wherein said composition is administered as a single dose.

12. A method according to claim 8, wherein said single dose comprises Echium oil.

10 13. A method according to claim 12, wherein said composition is administered in an amount which delivers about 15 grams of Echium oil per day.

15 14. A composition as claimed in claim 12, wherein the polyunsaturated fraction of said Echium oil is concentrated.